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Feb 11, 1999

DERWENT-ACC-NO: 1994-256756

DERWENT-WEEK: 199918

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TITLE: Protecting skin or hair against stings, esp. for jellyfish - by applying topical aq. dispersion contg. inorganic micro:pigment, also protecting against UV rays

INVENTOR: DEGWERT, J; GERS-BARLAG, H ; HOPPE, U ; SCHULZ, S ; HACHMANN, S ;
NISSEN, B ; GERSBARLAG, H

PATENT-ASSIGNEE:

ASSIGNEE

CODE

BEIERSDORF AG

BEIE

PRIORITY-DATA: 1993DE-4303983 (February 11, 1993), 1993DE-4342719 (December 15, 1993), 1994AU-0067563 (July 19, 1994)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
AU 701917 B	February 11, 1999	N/A	000	A61K007/40
EP 610926 A1	August 17, 1994	G	009	A61K007/42
DE 4303983 A1	August 18, 1994	N/A	000	A61K007/42
WO 9417779 A1	August 18, 1994	G	018	A61K007/42
EP 683661 A1	November 29, 1995	G	094	A61K007/42
EP 683662 A1	November 29, 1995	G	000	A61K007/42
AU 9467563 A	February 1, 1996	N/A	000	A61K007/40
JP 08506327 W	July 9, 1996	N/A	019	A61K007/42
EP 683661 B1	April 2, 1997	G	009	A61K007/42
DE 59402307 G	May 7, 1997	N/A	000	A61K007/42
ES 2101503 T3	July 1, 1997	N/A	000	A61K007/42
DE 4303983 C2	January 22, 1998	N/A	006	A61K007/42
US 5788952 A	August 4, 1998	N/A	000	A61K007/42

DESIGNATED-STATES: AT BE CH DE ES FR GB IT LI NL CN JP US AT BE CH DE DK ES FR
GB GR IE IT LU MC NL PT SE AT BE CH DE ES FR GB IT LI NL AT BE CH DE DK ES FR
GB GR IT LI NL SE AT BE CH DE ES FR GB IT LI NL

CITED-DOCUMENTS: DE 1492258; EP 518772 ; FR 2622440 ; GB 2184356 ; US 4731242 ;
US 4917882 ; WO 921315 ; WO 9221315 ; DE 3824999 ; GB 2206282 ; US 5207998 ; WO
9009777

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
AU 701917B	July 19, 1994	1994AU-0067563	N/A
AU 701917B		AU 9467563	Previous Publ.
EP 610926A1	February 10, 1994	1994EP-0102046	N/A
DE 4303983A1	February 11, 1993	1993DE-4303983	N/A
WO 9417779A1	January 20, 1994	1994WO-DE00041	N/A
EP 683661A1	January 20, 1994	1994EP-0904946	N/A
EP 683661A1	January 20, 1994	1994WO-DE00041	N/A
EP 683661A1		WO 9417779	Based on
EP 683662A1	January 29, 1994	1994EP-0906172	N/A
EP 683662A1	January 29, 1994	1994WO-EP00257	N/A
EP 683662A1		WO 9417780	Based on
AU 9467563A	July 19, 1994	1994AU-0067563	N/A
JP08506327W	January 20, 1994	1994JP-0517503	N/A
JP08506327W	January 20, 1994	1994WO-DE00041	N/A
JP08506327W		WO 9417779	Based on
EP 683661B1	January 20, 1994	1994EP-0904946	N/A
EP 683661B1	January 20, 1994	1994WO-DE00041	N/A
EP 683661B1		WO 9417779	Based on
DE59402307G	January 20, 1994	1994DE-0502307	N/A
DE59402307G	January 20, 1994	1994EP-0904946	N/A
DE59402307G	January 20, 1994	1994WO-DE00041	N/A
DE59402307G		EP 683661	Based on
DE59402307G		WO 9417779	Based on
ES 2101503T3	January 20, 1994	1994EP-0904946	N/A
ES 2101503T3		EP 683661	Based on
DE 4303983C2	February 11, 1993	1993DE-4303983	N/A
US 5788952A	January 20, 1994	1994WO-DE00041	N/A
US 5788952A	August 4, 1995	1995US-0495641	N/A
US 5788952A		WO 9417779	Based on

INT-CL (IPC): A61K 7/00; A61K 7/40; A61K 7/42; A61K 7/44; A61K 33/24; A61K 33/30

RELATED-ACC-NO: 1994-279357;1995-240443

ABSTRACTED-PUB-NO: EP 610926A
BASIC-ABSTRACT:

The use of a topical formulation (I), contg. inorganic micropigments (II) and opt. organic UV filtering agents (III), is claimed for protecting against animal stings. (I) is an emulsifier-free hydrodispersion consisting of a lipid dispersed phase and an aq. continuous phase, pref. with (I) in the lipid phase.

Pref. (II) is a metal oxide or other water-insol. or sparingly soluble metal cpd., esp. TiO₂, ZnO, Fe₂O₃, ZrO₂, SiO₂, MnO, Al₂O₃, C₂O₃, or a corresp. mixed oxide or mixt. (II) is used at 0.01-30 (pref. 0.1-6) wt.% of (I). The surface of (II) is pref. hydrophobised. The aq. phase of (I) contains a thickener, pref. a polyacrylate.

USE/ADVANTAGE - (I) protects bathers (esp. in the tropics) against stings from jellyfish, medusas and polyyps, esp. the fire jellyfish (sic) *Cyaneta capillata*. (I) also has a sun-screen effect. A claimed method for protecting skin and hair against stinging animals (and their venom) and UV rays comprises applying a cosmetic and/or dermatologic al compsn. (I) topically. (I) is resistant to

water, including salt water, and gives effective, long-lasting protection. (I) is not tacky or subject to agglomeration, does not dry the skin and has an acceptable feeling on the skin.

In an example, a sun gel (factor 12) contained (by wt.) 1% 'Carbomer' (RTM) 980 and 981 (wt. ratio 10:1), 6% octyl methoxycinnamate, 3% hydrophobised TiO₂ (particle size less than 100nm), 5% ethanol, 3% butylene glycol, 0.5% EDTA soln. (14%), 3% phenyltrimethicone, 2% butyl-methoxy-dibenzoylmethane, 1.5% methyl benzylidene camphor, 1% tocophenyl acetate, 0.03% hyaluronic acid, tromethamine (to give pH 5.0-5.5), 0.3% xanthan gum, perfume, preservative and dye (9.5) and water (to 100%).

In tests against *Cyanea capillata* stings on pig skin samples, the compsn. adhered well to the skin and prevented dissolution of sting capsules in the skin after contact with tentacles for 4 secs.

ABSTRACTED-PUB-NO:

EP 683661B

EQUIVALENT-ABSTRACTS:

Cosmetic and dermatological sunscreen formulations containing (a) inorganic micro-pigments, which are hydrophobised on the surface, as UV filter substances and (b) optionally additional organic UV filter substances, characterised in that (c) the formulations are hydro-dispersions, (d) which consist of an inner lipid and an outer aqueous phase, and (e) which are free of emulsions, and in that (f) the inorganic micro-pigments are incorporated in the lipid phase of the hydro-dispersions.

US 5788952A

The use of a topical formulation (I), contg. inorganic micropigments (II) and opt. organic UV filtering agents (III), is claimed for protecting against animal stings. (I) is an emulsifier-free hydrodispersion consisting of a lipid dispersed phase and an aq. continuous phase, pref. with (I) in the lipid phase.

Pref. (II) is a metal oxide or other water-insol. or sparingly soluble metal cpd., esp. TiO₂, ZnO, Fe₂O₃, ZrO₂, SiO₂, MnO, Al₂O₃, Cr₂O₃, or a corresp. mixed oxide or mixt. (II) is used at 0.01-30 (pref. 0.1-6) wt.% of (I). The surface of (II) is pref. hydrophobised. The aq. phase of (I) contains a thickener, pref. a polyacrylate.

USE/ADVANTAGE - (I) protects bathers (esp. in the tropics) against stings from jellyfish, medusas and polyps, esp. the fire jellyfish (sic) *Cyanea capillata*. (I) also has a sun-screen effect. A claimed method for protecting skin and hair against stinging animals (and their venom) and UV rays comprises applying a cosmetic and/or dermatologic al compsn. (I) topically. (I) is resistant to water, including salt water, and gives effective, long-lasting protection. (I) is not tacky or subject to agglomeration, does not dry the skin and has an acceptable feeling on the skin.

In an example, a sun gel (factor 12) contained (by wt.) 1% 'Carbomer' (RTM) 980 and 981 (wt. ratio 10:1), 6% octyl methoxycinnamate, 3% hydrophobised TiO₂ (particle size less than 100nm), 5% ethanol, 3% butylene glycol, 0.5% EDTA soln. (14%), 3% phenyltrimethicone, 2% butyl-methoxy-dibenzoylmethane, 1.5% methyl benzylidene camphor, 1% tocophenyl acetate, 0.03% hyaluronic acid, tromethamine (to give pH 5.0-5.5), 0.3% xanthan gum, perfume, preservative and dye (9.5) and water (to 100%).

In tests against *Cyanea capillata* stings on pig skin samples, the compsn. adhered well to the skin and prevented dissolution of sting capsules in the skin after contact with tentacles for 4 secs.

CHOSEN-DRAWING: Dwg.0/0 Dwg.0/0

TITLE-TERMS: PROTECT SKIN HAIR STING JELLYFISH APPLY TOPICAL AQUEOUS DISPERSE
CONTAIN INORGANIC MICRO PIGMENT PROTECT ULTRAVIOLET RAY

DERWENT-CLASS: A96 D21

CPI-CODES: A12-V01; A12-V04C; D08-B09A;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0380U; 0760U ; 1508U ; 1520U ; 1521U ; 1544U
; 1694U ; 1704U ; 1714U ; 1724U ; 1936U ; 1966U

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 017 ; G0339*R G0260 G0022 D01 D12 D10 D51 D53 D63 F41 ;
H0000 ; H0011*R ; P0088 Polymer Index [1.2] 017 ; ND01 ; Q9999 Q9176 Q9165 ;
Q9999 Q9187 Q9165 ; Q9999 Q9347 ; K9869 K9847 K9790 ; B9999 B4706*R B4568

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1994-117331